

ABSTRACT

A system and method for coding identification in a wireless transmit and receive protocol for single-frequency peripheral devices. A wireless system, consisting of a first data transmitting unit, a second data transmitting unit, and a data receiving unit, is able to send a packet twice using an Amplitude-Shift Keying (ASK) Modulation technique, repeated sending, and a single frequency, during one packet transmission. In order to lower the cost of the wireless module, the length of a packet transmission period is to be four times the sum of the time required to send two separate packets, thus allowing simultaneous control of two data transmitting units, and recognition of two different packets using a single data receiving unit.